

PRODUCTION OF QUATERNARY ALKYLAMMONIUM SALT

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Abstract of JP10087574

PROBLEM TO BE SOLVED: To provide a method for producing a quaternary alkylammonium salt useful as an electrolyte of the organic electrolyte liquid for an electrolytic capacitor or an electric cell in high purity without using anhydrous hydrogen fluoride by reacting a quaternary alkylammonium halide with LiBF₄, etc., in an alcohol.

SOLUTION: A quaternary alkylammonium halide of the formula R₁ R₂ R₃ R₄ N<+>.X₁ <-> 1 (R₁ to R₄ are each a 1-5C alkyl; X₁ is Cl or Br) (e.g. tetraethylammonium chloride) is reacted with LiBF₄ or LiPF₆ in an alcohol to readily provide the objective quaternary alkylammonium salt of the formula R₁ R₂ R₃ R₄ N<+>.X₂ <-> (X₂ is BF₄ <-> or PF₆ <->) in the method for producing the quaternary alkylammonium salt.

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